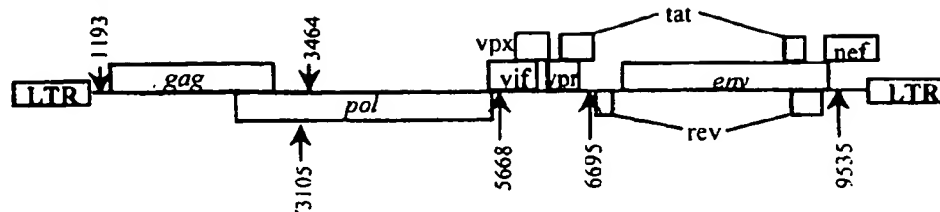
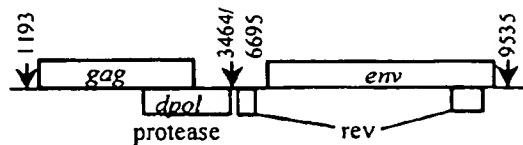


FIG. 1

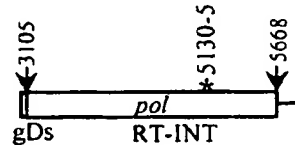
SIV<sub>mac239</sub>



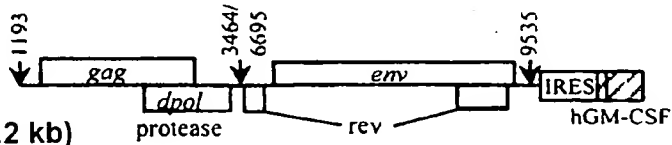
SIV/GE (5.1 kb)



SIV/pol (2.7kb)



SIV/GE-GC (6.2 kb)



SIV/pol-IL-2 (3.7kb)

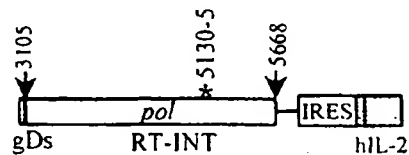
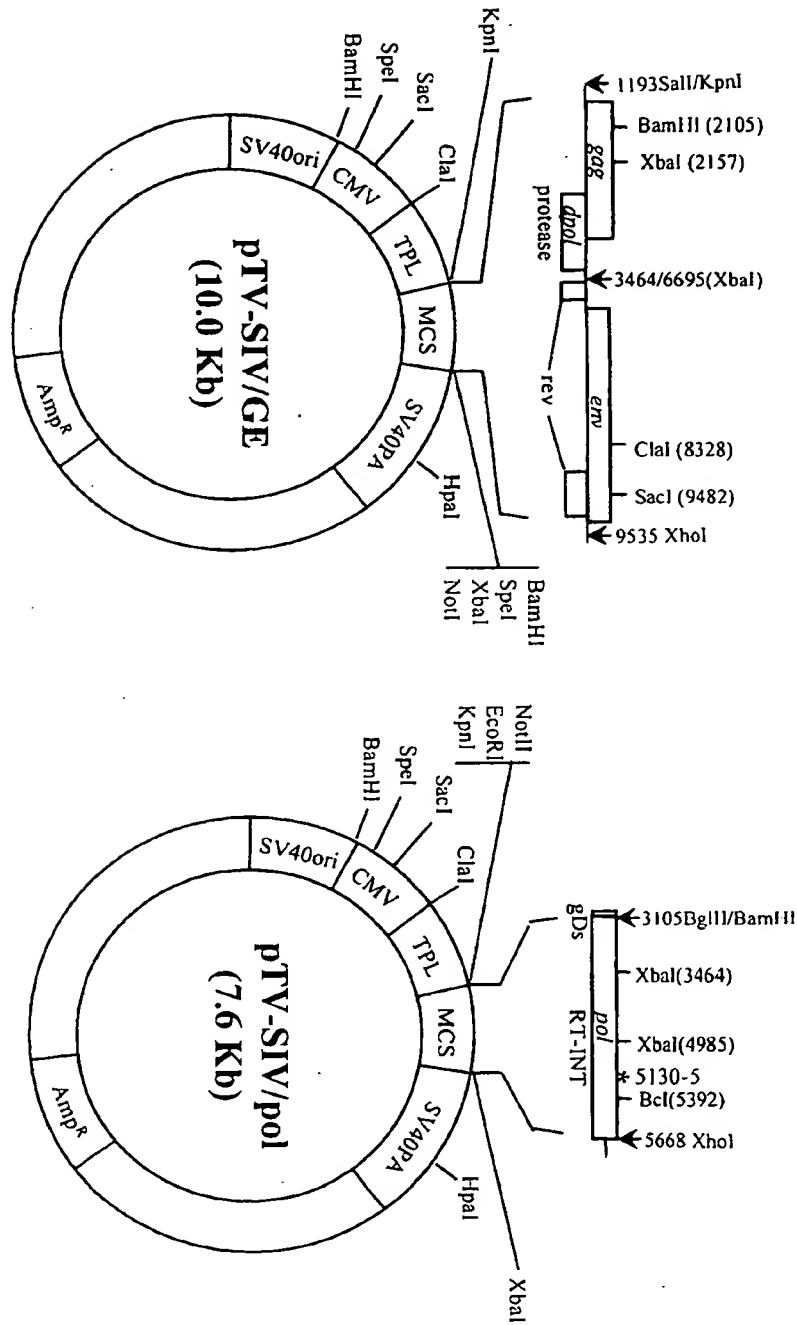


FIG. 2



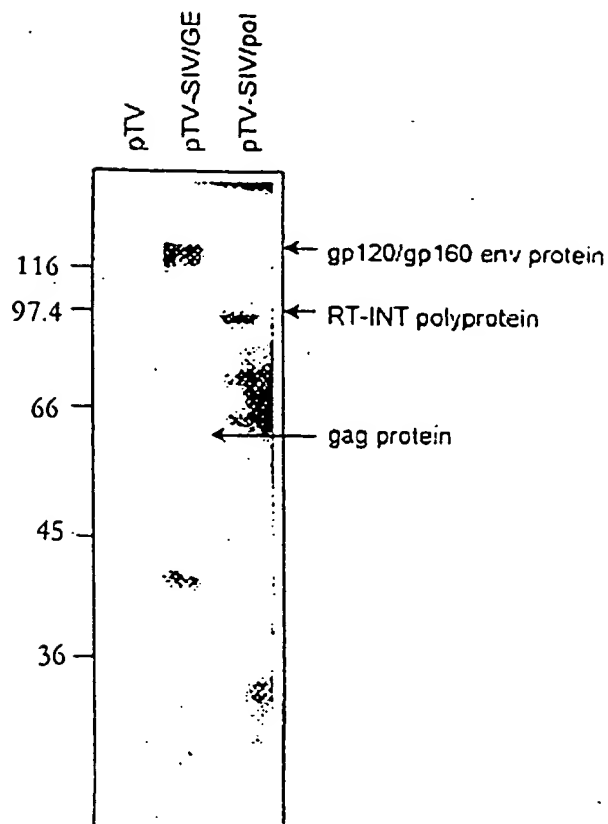


FIG. 3

FIG. 4

wpi	Controls (Group 1)			Group 2		Group 3			Group 4		
	8645	8772	8774	8777	8780	8783	8786	8787	8789	8791	8792
0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1	32	2048	4	0.33	4	4	128	0.33	128	64	0.33
2	2048	4096	2048	0.33	2048	4096	2048	2048	4096	2048	16
4	1024	1024	4096	0.1	256	256	512	2048	256	4096	2048
8	128	4096	4096	0.1	32	1024	512	1024	128	2048	2048
12	512	512	8192	0.1	32	1024	2048	4096	1024	4096	4096
16	256	512	1024	0.1	0.33	1024	1024	512	512	512	4096
20	512	1024	64	0.1	0.1	2048	2048	512	512	2048	4096
24	1024	2048	2048	0.1	0.1	1024	1024	4096	2048	1024	1024
28	1024	1024	1024	0.1	0.1	1024	1024	1024	2048	1024	4096
32	1024	-	512	0.1	0.1	1024	1024	512	4096	512	512
36	128	-	128	0.1	0.1	1024	2048	256	1024	1024	1024
40	256	-	-	0.1	0.1	1024	512	2048	256	1024	1024

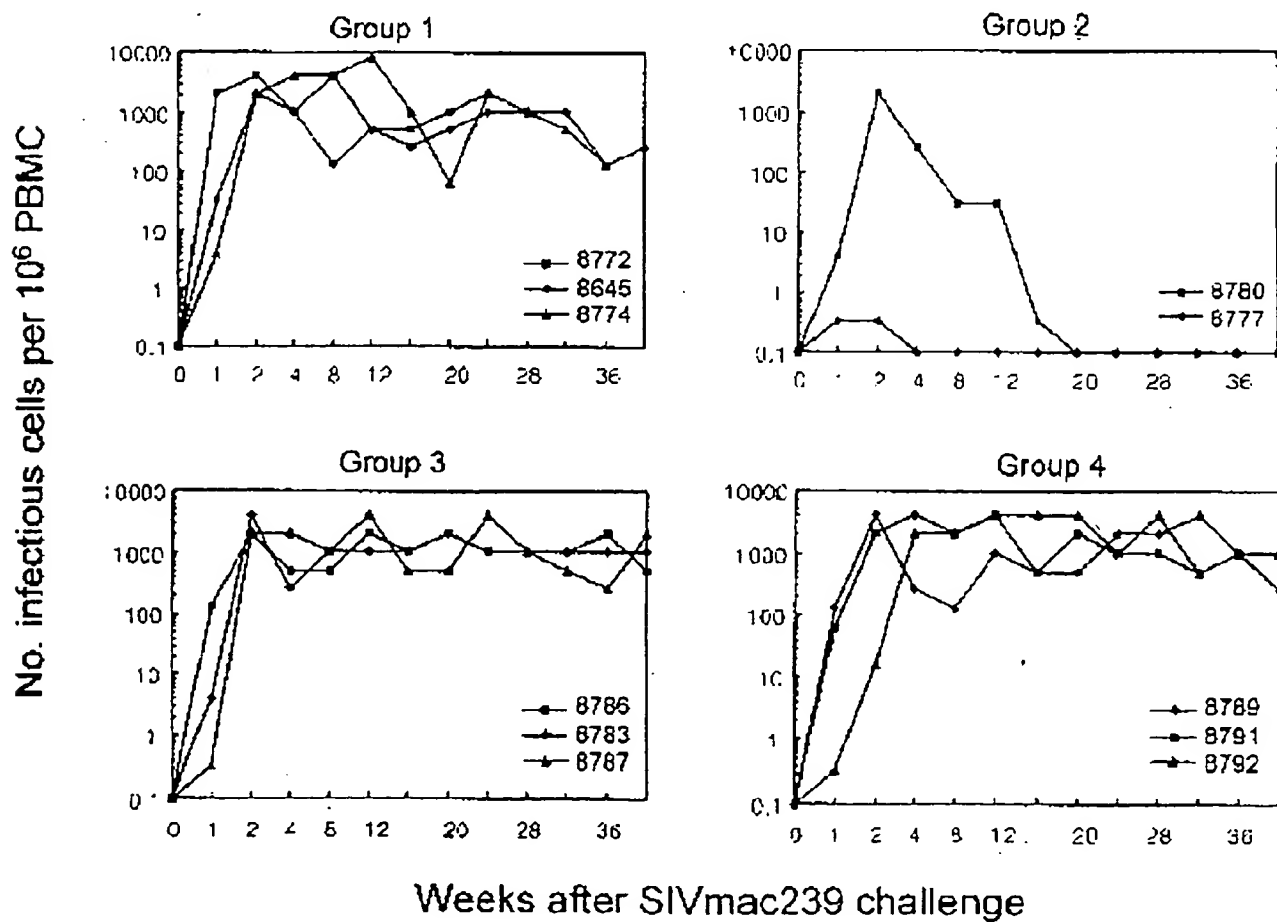
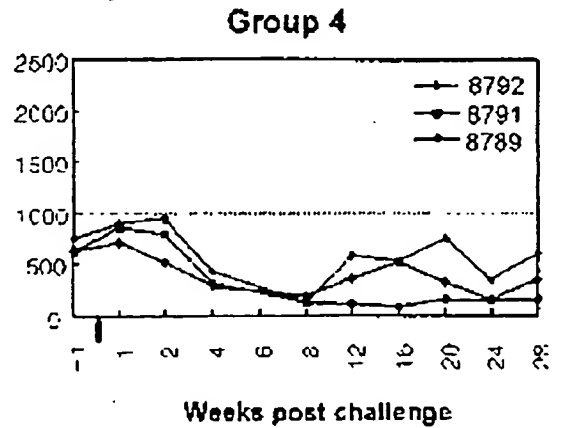
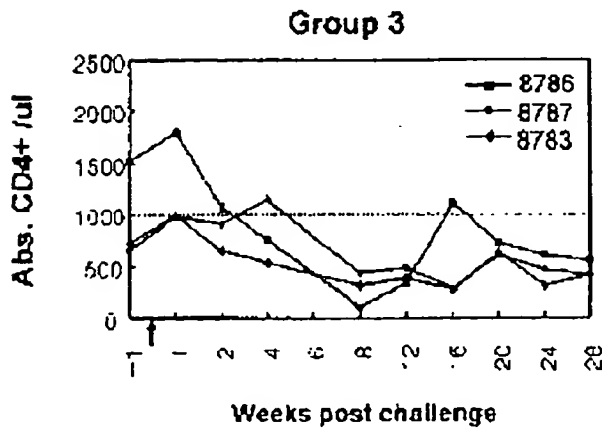
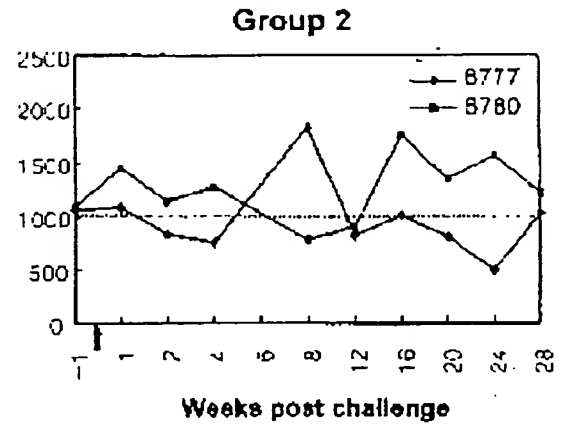
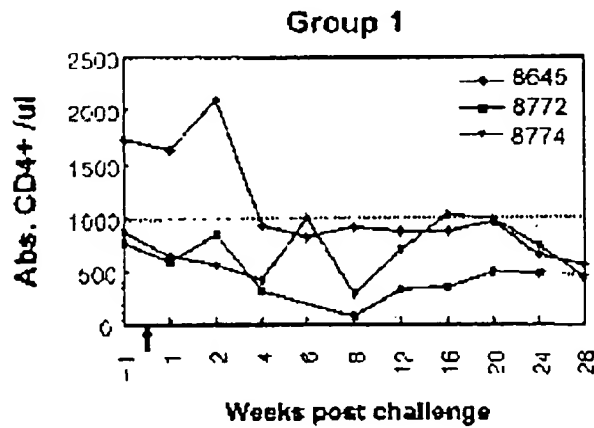


FIG. 5

wpc	controls			Group 2		Group 3			Group 4		
	8645	8772	8774	8777	8780	8783	8786	8787	8789	8791	8792
0	1738	778	885	1064	1095	725	1517	667	620	627	758
1	1641	596	652	1096	1453	986	1792	975	716	858	898
2	2101	859	564	845	1143	655	1071	912	522	801	949
4	934	316	413	763	1276	513	749	1152	294	314	427
6	831		1019								
8	926	75	281	1823	796	311	102	428	195	134	131
12	889	337	711	836	906	378	335	479	362	117	588
16	879	351	1044	1010	1756	273	1101	288	513	94	527
20	983	499	1001	817	1352	634	732	608	318	156	763
24	660	483	754	489	1375	309	612	475	155	149	348
28	559		438	1045	1225	416	556	418	346	164	595



000000 000000 000000

FIG. 6

wpc	controls (Group 1)			Group 2		Group 3			Group 4		
	8645	8772	8774	8777	8780	8783	8786	8787	8789	8791	8792
-28	7.8	14.6	14.6	17.1	18.6	12.8	12.2	12.7		14.8	15.5
-24	8.1	12.1	15.7	20.2	27	16.4	12.5	14.1	21.1	18.2	18.4
-20	5.9	11.7	11.7	17.2	14.7	13	12.1	8.6	15.6	11.7	14.9
-16	6.9	13.3	13.6	14.8	15.1	15.9	12.1	18.6	20	19.4	15.1
-12	6.3	12.8	11.8	15.9	15.3	21.7	12.8	11.9	19.2	18.2	14.9
-8	10.6	12.9	16.6	19.3	18	18.4	14.1	13.3	20.4	20.3	19.3
-4	6.7	6.6	11.8	18.5	11.7	10.4	6.5	9.9	13	11.9	15.9
0	3.8	2.6	4.6	16.3	10.4	6.5	3.1	5.6	7.1	4.5	6.3
4	4.2		2.8								
8	3.7	2.2	5.8	13.2	9.3	5	1.4	5.8	5.3	2.4	10.4
12	5	3.1	2.3	16.7	10.3	3.8	2.3	5.3	9	2.1	7.3
16	6.1	3.8	4.5	20.1	15.7	2.6	2.3	4.3	11.2	1.6	7.3
20	5.1	1.9	3.3	18.5	12.1	3	1.3	5.5	6.8	1.1	6.2
24	5.2	2.1	2.4	17.4	15.2	2.4	2.4	8.4	5.9	2	6.1
28	3.3		0.7	20	13.9	2.9	1.4	5.1	7	1.8	7.4

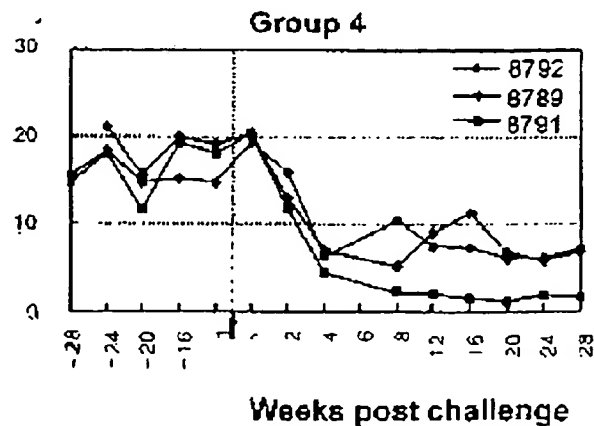
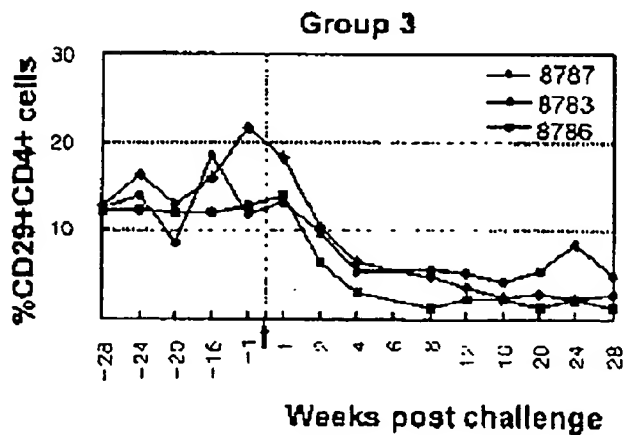
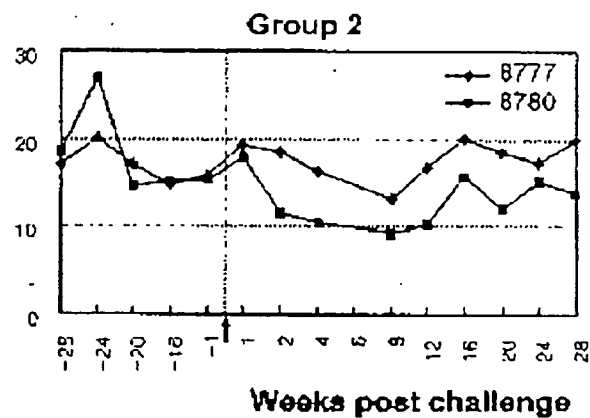
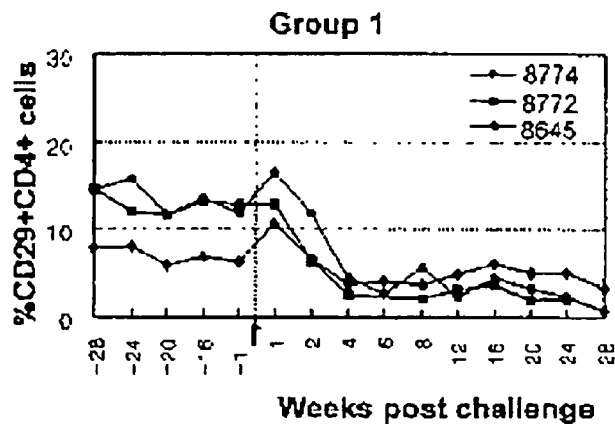
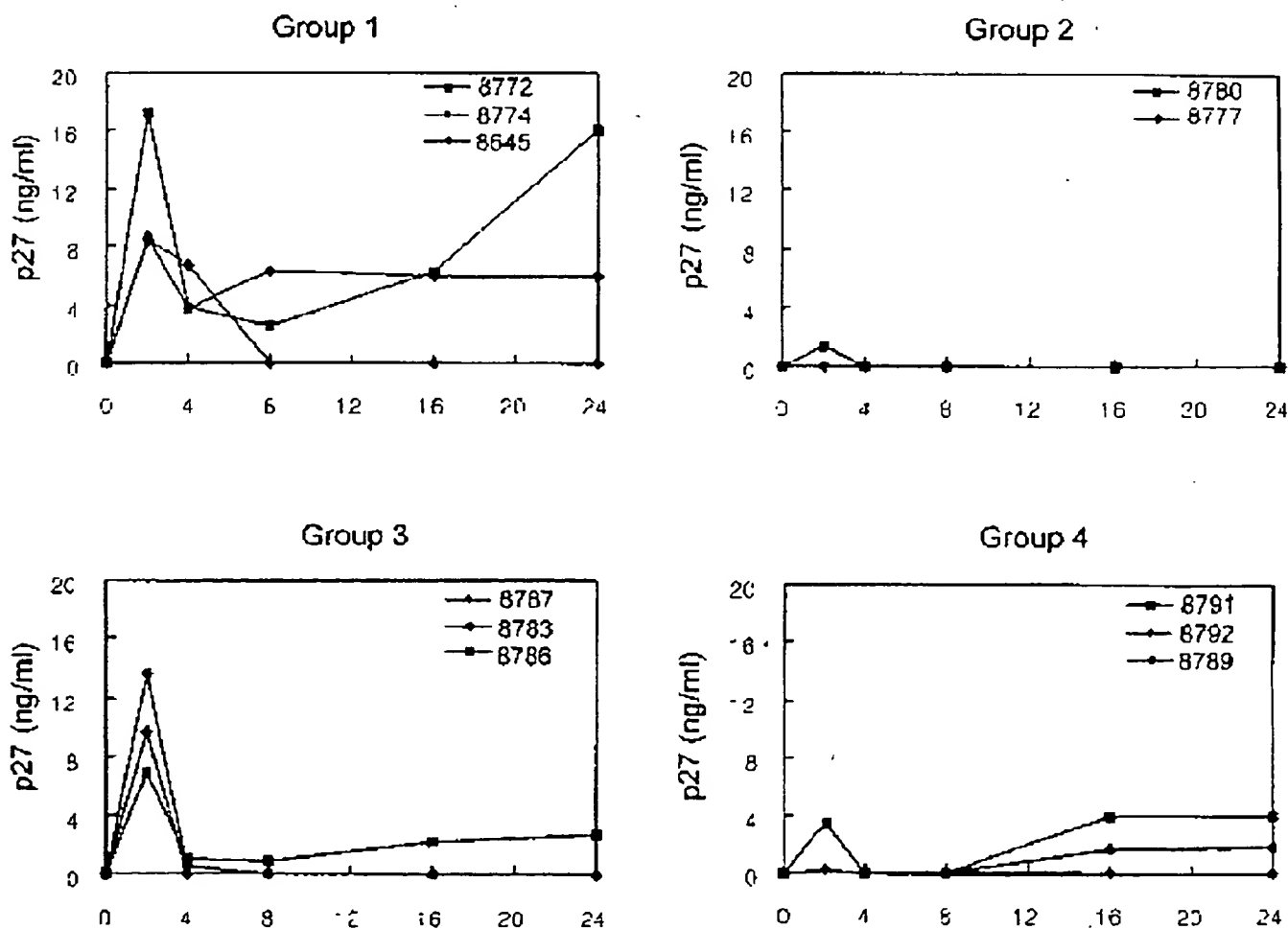


FIG. 7

Week	Controls (Group 1)			Group 2		Group 3			Group 4		
	8645	8772	8774	8777	8780	8783	8786	8787	8789	8791	8792
0	0	0	0	0	0	0	0	0	0	0	0
2	8.4	17.2	8.6	0	1.35	9.72	6.89	13.68	0.28	3.48	
4	6.7	3.85	3.69	0	0	0	0.97	0.54	0	0	0
8	0	2.5	6.4	0	0	0	0.9	0	0	0	0
16	0	6.3	6	0	0	0	2.21	0	0	4	1.7
24	0	16	6	0	0	0	2.69	0	0	4	1.72



Weeks after SIVmac239 challenge

003021-91208460

FIG. 8

Monkey#	group	Cell-associated viral load (# of infectious cells per $1 \times 10^6$ mononuclear cells)											
		PRMC	LN-cervicalis	Palatine tonsil	Lingual tonsil	spleen	LN-axillaris	LN-inguinal	LN-mesent.	LN-submandib.	thymus	LN-retro-pharyng.	Peyer's patches
Week 25 post-infection													
8777	2	-	ND <sup>b</sup>	ND	ND	ND	ND	8	ND	ND	ND	ND	ND
8780	2	-	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND
Week 52 post-infection													
8777	2	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
8780	2	0.33	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
8783	3	1024	ND	ND	ND	ND	1024	ND	ND	ND	ND	ND	ND
Week 60 post-infection (necropsy)													
8777	2	-	-	ND	ND	-	-	ND	-	-	-	-	-
8780	2	1	-	-	-	16	-	ND	4	2	-	4	-



FIG. 9

Group (monkey#)	Immunogen (weeks post the 1st immunization)					Challenge (46 weeks)
	1'DNA (0week)	2'DNA (8 weeks)	3'DNA or protein (17weeks)	4'DNA or protein (25 weeks)	5'DNA or protein (44 weeks)	
1 (8645, 8772, 8774)	pTV: 800ug	<-	<-	<-	<-	SIVmac239 dose: 10 MID <sub>50</sub> route: i.v
2 (8777, 8780)	pTV-GE: 400ug pTV-dpol: 400ug	<-	<-	<-	<-	
3 (8783, 8786, 8787)	pTV-GE: 200ug pTV-GE-GC: 200ug pTV-dpol: 200ug pTV-dpol-IL2: 200ug	<-	<-	<-	<-	
4 (8789, 8791, 8792)	pTV-GE: 400ug pTV-dpol: 400ug	<-	rRT: 50ug gp120: 50ug p27: 50ug with alum	<-	rRT: 50ug gp120: 50ug p27: 50ug with alum adjuvant	



10/10

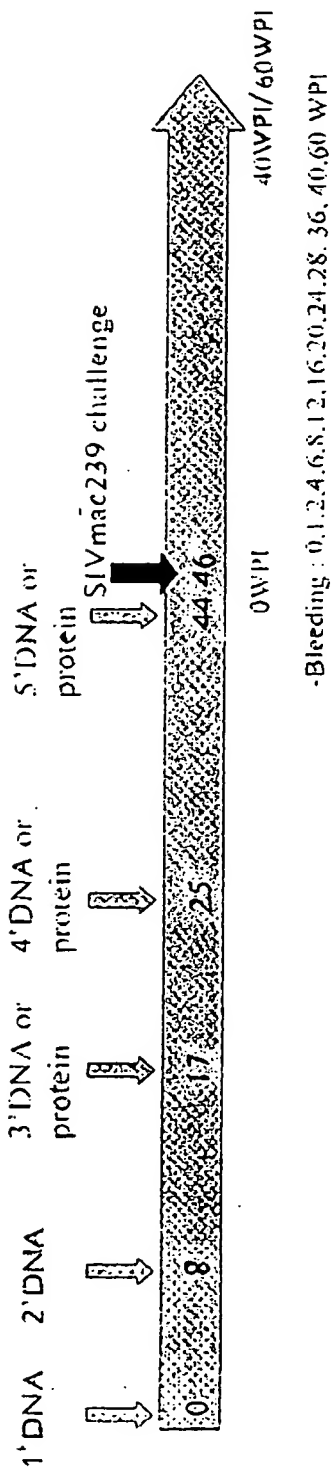


FIG. 10